

## **HOUSING FOR TEMPERATURE SENSING ASSEMBLIES IN A THERMOMETER**

### ABSTRACT OF THE DISCLOSURE

5           A platinum resistance thermometer has an  
outer housing with a bore that receives a temperature  
sensor assembly including a mandrel having a sensing  
section with a platinum wire wound thereon and  
supported in the bore with a non-cohesive powder  
10 material that will distribute stresses caused by  
differential thermal expansion between the housing  
and the temperature sensor assembly. A second portion  
of the mandrel is supported in the bore with a rigid  
epoxy to mechanically support the sensor assembly  
15 with the sensing section cantilevered from the rigid  
epoxy.